

PLCC Lightbar FPC 3014 Series Datasheet



Features :

- High Brightness SMD LED
- Low Power Requirement & Energy Efficient
- Suitable for Restricted Space

Typical Applications :

- Auditorium Walkway Lighting
- Stairway Accent Lighting
- Cabinet Lighting

Specification :

- Color : ○ ● ●



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General Information

Introduction

PLCC Lightbar FPC R is a strip of lighting module available in varying colors. Its flexible circuit board not only enables novel design thinking with bendable light source, but also offers a wide range of applications with dividable lighting segments.

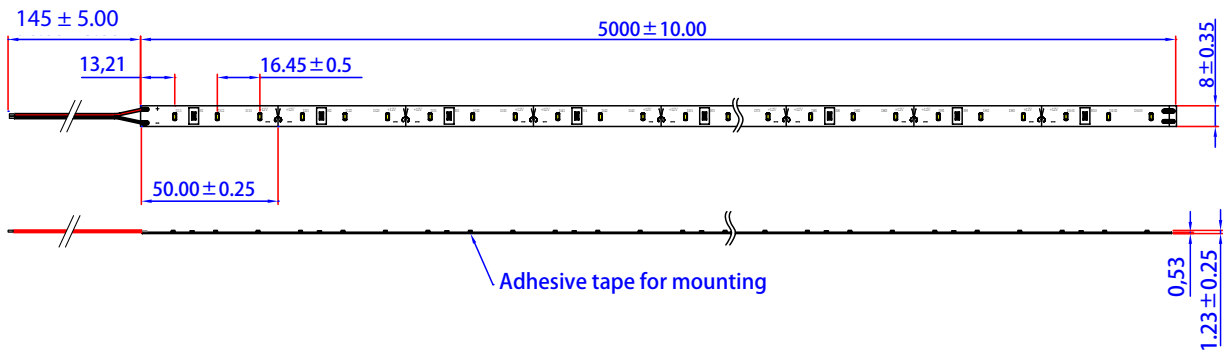
Ordering Code Format

6
X1
L B R 1
X2
X X
X3
N
X4
X
X5
0 0 0 0 0 0 x
X6

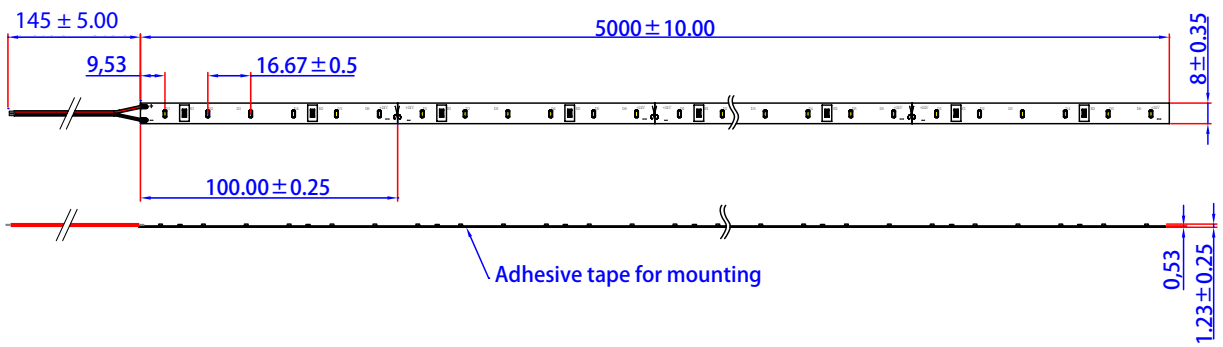
| X1 | | X2 | | X3 | | X4 | | X5 | | X6 | |
|------|--------|--------|-----|----------------|---------------|-------|-------|--------|--------|------------|-------|
| Item | Module | Series | FPC | Emitting Color | Color | Angle | Value | Driver | Value | Serial No. | Value |
| 6 | Module | LBR1 | FPC | CW | Cool White | N | 120 | I | CV 12V | xxxxxxx | -- |
| | | | | NW | Neutral White | | | J | CV 24V | | |
| | | | | WW | Warm White | | | | | | |
| | | | | M6 | CW+WW | | | | | | |

Product Dimensions

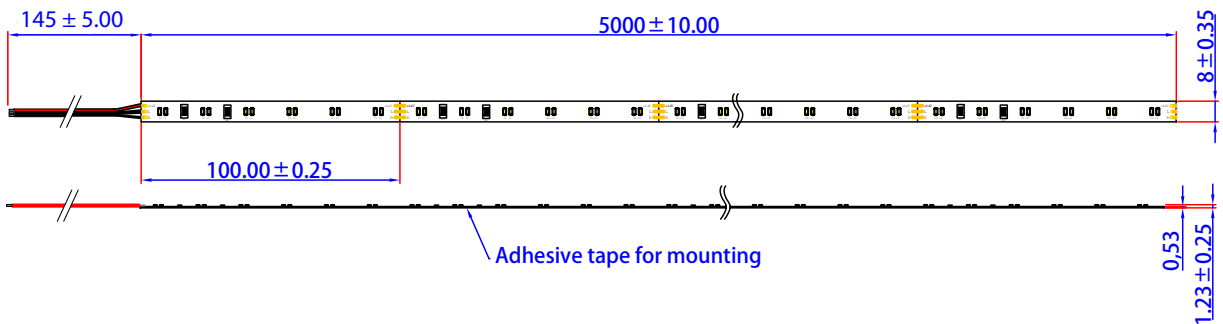
6LBR1xWNI0000003 Series Dimensions (CV 12V)



6LBR1xWNJ000000x Series Dimensions (CV 24V)



6LBR1M6NJ0000001 Series Dimensions (CV 24V)



Notes:

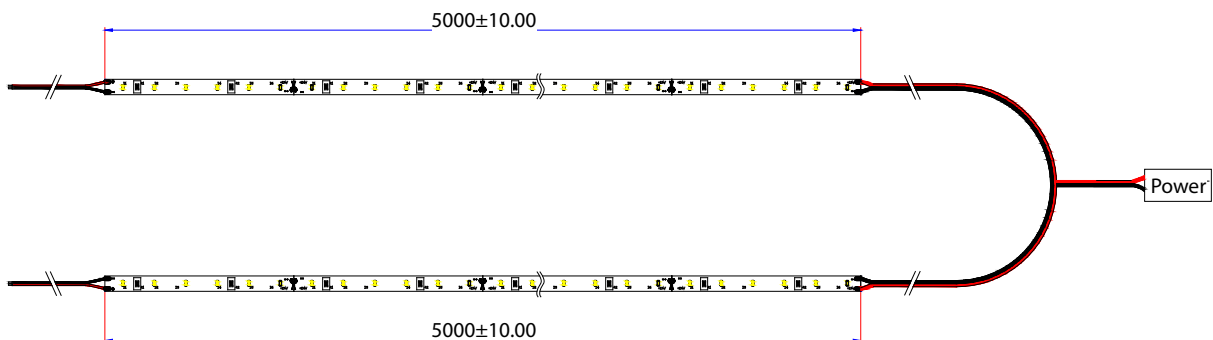
1. All dimensions are in millimeters.
2. Tolerance is ± 0.20 mm

Absolute Maximum Ratings

| Parameter | Symbol | Value | Units |
|--------------------------|-----------|-----------|-------|
| LED junction Temperature | T_j | 125 | °C |
| Operating Temperature | T_{opr} | -20 ~ +40 | °C |
| Storage Temperature | T_s | -20 ~ +85 | °C |
| Number of FPC Connection | - | 15 | M |

Notes:

1. Proper current derating must be observed to maintain junction temperature below the maximum at all time.
2. LEDs are not designed to be driven in reverse bias.
3. Strongly recommended one power connection one set FPC, If over two set FPC recommended connection power between two FPC (Drawing).



Electric-Optical Characteristics (T_j=25°C)

6LBR1xWNI0000003 Series (CV 12V)

| Order Code | Color | CCT(K) | Input Voltage (CV) | Im (M) | Number of LEDs (M) | Power (W/M) | Forward Current (mA/M) | CRI |
|------------------|---------------|--------|--------------------|--------|--------------------|-------------|------------------------|-----|
| 6LBR1CWNI0000003 | Cool White | 6000K | 12 | 630 | 60 | 7.2 | 600 | 80 |
| 6LBR1NWNi0000003 | Neutral White | 4000K | 12 | 630 | 60 | 7.2 | 600 | 80 |
| 6LBR1WWNI0000003 | Warm White | 3000K | 12 | 588 | 60 | 7.2 | 600 | 80 |

6LBR1xWNJ000000x Series (CV 24V)

| Order Code | Color | CCT(K) | Input Voltage (CV) | Im (M) | Number of LEDs (M) | Power (W/M) | Forward Current (mA/M) | CRI |
|------------------|---------------|--------|--------------------|--------|--------------------|-------------|------------------------|-----|
| 6LBR1CWNJ0000005 | Cool White | 6000K | 24 | 630 | 60 | 7.2 | 300 | 80 |
| 6LBR1NWNJ0000008 | Neutral White | 4000K | 24 | 630 | 60 | 7.2 | 300 | 80 |
| 6LBR1WWNJ0000009 | Warm White | 3000K | 24 | 588 | 60 | 7.2 | 300 | 80 |

6LBR1M6NJ0000001 Series (CV 24V)

| Order Code | Color | CCT(K) | Input Voltage (CV) | Im (M) | Number of LEDs (M) | Power (W/M) | Forward Current (mA/M) | CRI |
|------------------|------------|--------|--------------------|--------|--------------------|-------------|------------------------|-----|
| 6LBR1M6NJ0000001 | Cool White | 6000K | 24 | 630 | 60 | 7.2 | 300 | 80 |
| | Warm White | 3000K | 24 | 588 | 60 | 7.2 | 300 | 80 |

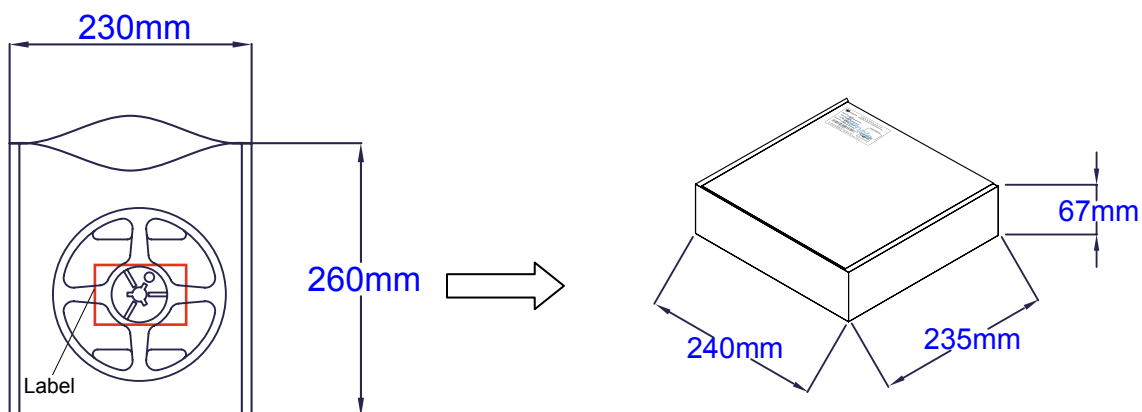
Notes:

1. CCT/Wavelength is measured with an accuracy of $\pm 10\%$
2. Forward Current is measured with an accuracy of $\pm 10\%$

Product Packaging Information

PLCC Lightbar FPC Material Description

| Package Type | Part NO. | 6LBR1xxNx000000x | Dimension |
|----------------|----------|-------------------|-----------------------|
| Antistatic bag | | 1 Reel | 260mm x 230mm |
| Inside box | | 5 Antistatic bags | 240mm x 235mm x 67mm |
| Outside box | | 10 Inside boxes | 488mm x 364mm x 261mm |

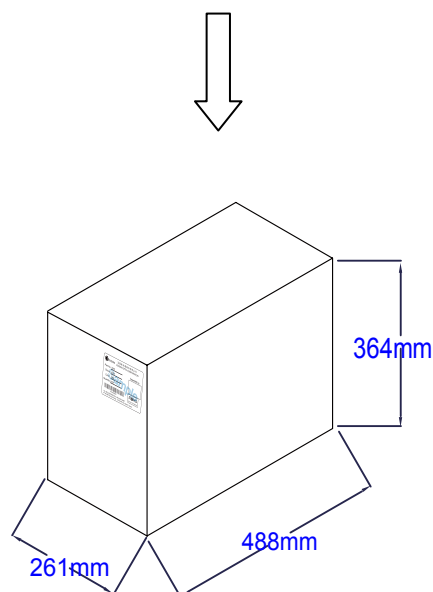


EX:

| | |
|--|---|
|  艾笛森光電股份有限公司 EDISON OPTO CORPORATION | |
| Part No. : <u>6LBR1CWNJ0000005</u> | Inspected by: |
| Color : <u>Cool White(34W3FVB2)</u> | <input type="text"/> |
| Quantity : <u>1 Reel(5M)</u> | |
| Lot No. : <u>D1201-12110022</u> | |
|  A410000005 Tel +86-2-82276996 Fax +86-2-8227-6997 4F No.800 Chung-Cheng .. Chung-Ho City Taipei. Taiwan |  ROHS Directive Compliance |

Label information

Part NO. : Order code
Color : Color(Emitter BIN color)
Quantity : The number of packing
Lot NO. : Date code



Environmental Compliance

PLCC lightbar FPC series are compliant to the Restriction of Hazardous Substances Directive or RoHS. The restricted materials including lead, mercury cadmium hexavalent chromium, polybrominated biphenyls (PBB) and polybrominated diphenyl ether (PBDE) are not used in PLCC lightbar FPC series to provide an environmentally friendly product to the customers.

Application Notes

PLCC Lightbar series are available in red, yellow, green, blue, white, neutral white and warm white for application such as under-cabinet lighting, cove lighting and wall washing. Moreover, additional fine-tuned high color rendering index (CRI) version of white, neutral white and warm white all make PLCC Lightbar the ideal lighting choice for vividly building or decoration products, presenting the products outline.

Revision History

| Versions | Description | Release Date |
|----------|---|--------------|
| 1 | Establish order code information | 2013/06/20 |
| 2 | 1. Update the Emitting Color of order code format and CRI 2. Add the label information | 2013/07/23 |

About Edison Opto

Edison Opto is a leading manufacturer of high power LED and a solution provider experienced in LDMS. LDMS is an integrated program derived from the four essential technologies in LED lighting applications- Thermal Management, Electrical Scheme, Mechanical Refinement, Optical Optimization, to provide customer with various LED components and modules. More Information about the company and our products can be found at www.edison-opto.com

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